

CLAIMS

WHAT IS CLAIMED IS:

1. A headlamp adjustment assembly, comprising
a headlamp panel;
a housing secured to said headlamp panel;
a shaft extending through said housing, said shaft having an end for engaging a headlamp reflector and a screw thread provided along at least a portion of a length of said shaft; and
an adjustment gear disposed rotatably on said shaft and in said housing, said gear defining a hole therethrough with a thread therein engaging said screw thread of said shaft, said gear being in a substantial axially fixed and rotatable position in said housing, whereby rotation of said gear causes axial movement of said shaft relative to said gear and said housing, said adjustment gear adapted for rotation by a rotary input device drivingly coupled with said adjustment gear.
2. The adjustment assembly of claim 1, said housing defining a well adjacent said adjustment gear, with a portion of said gear exposed in said well, said well and said gear configured to receive said rotary input device in driving engagement with said gear.
3. The adjustment assembly of claim 2, said well and said gear adapted for receiving a screwdriver as said rotary input device.
4. The adjustment assembly of claim 2, said well and said gear adapted to receive a hex drive tool as said rotary input device.

5. The adjustment assembly of claim 1, said rotary input device comprising a drive gear in driving engagement with said adjustment gear, said drive gear adapted for engaging a rotary input tool.

6. The adjustment assembly of claim 5, said drive gear adapted for receiving a screw driver as said rotary input tool.

7. The adjustment assembly of claim 5, said drive gear adapted for receiving a hex tool as said rotary input tool.

8. The adjustment assembly of claim 7, said drive gear adapted for receiving a screw driver as said rotary input tool.

9. The adjustment assembly of claim 1, said panel defining a hole for receiving said housing therein.

10. The adjustment assembly of claim 9, said hole defined in said panel having cuts out at the perimeter thereof, and said housing having tabs arranged to pass only through said cut outs, said tabs disposed in spaced relation to a flange of said housing larger than said hole defined in said panel.

11. The adjustment assembly of claim 1, said housing said shaft and said adjustment gear made of plastic.

12. A headlamp adjuster, comprising:

a housing;

a shaft extending through said housing, said shaft having an end for engaging a headlamp reflector and a screw thread provided along at least a portion of a length of said shaft; and

an adjustment gear disposed rotatably on said shaft and in said housing, said gear defining a hole therethrough with a thread therein engaging said screw thread of said shaft, said gear being in a substantial axially fixed and rotatable position in said housing, whereby rotation of said gear causes axial movement of said shaft relative to said gear and said housing, said adjustment gear adapted for rotation by a rotary input device drivingly coupled with said adjustment gear.

13. The headlamp adjuster of claim 12, said housing defining a well adjacent said adjustment gear, with a portion of said gear exposed in said well, said well and said gear configured to receive said rotary input device in driving engagement with said gear.

14. The headlamp adjuster of claim 13, said well and said gear adapted for receiving a screw driver as said rotary input device.

15. The headlamp adjuster of claim 13, said well and said gear adapted to receive a hex tool as said rotary input device.

16. The headlamp adjuster of claim 12, said rotary input device comprising a drive gear in driving engagement with said adjustment gear, said drive gear adapted for engaging a rotary input tool.

17. The headlamp adjuster of claim 16, said drive gear adapted for receiving a screw driver as said rotary input tool.

18. The headlamp adjuster of claim 16, said drive gear adapted for receiving a hex tool as said rotary input tool.

19. The headlamp adjuster of claim 18, said drive gear adapted for receiving a screw driver as said rotary input tool.

20. A vehicle headlamp adjustment device, comprising:
a housing;
a shaft extending through said housing, said shaft having an end for engaging a headlamp reflector and a thread provided along at least a portion of a length of said shaft; and
an adjustment gear disposed rotatably on said shaft and in said housing;
said gear defining a hole therethrough with a thread therein engaging said thread of said shaft;
said gear being in a substantial axially fixed and rotatable position in said housing, whereby rotation of said gear causes axial movement of said shaft relative to said gear and said housing; and
said adjustment gear adapted for coupling to two different rotary tools for selectively rotating said adjustment gear with a selected one of the tools.